

Table S2

<u>Sequence 5' -> 3'</u>	<u>Purpose</u>	<u>Probe Sets Used With</u>
ATTO488 -CCAGTGCCTCGTGTGAGAAGTC	PCR Primer	Xq28 "X1"
CTGCAGAGAAGAGGCAGGTTTC	PCR Primer	Xq28 "X1"
ATTO565 -CGCTCGGTCTCCGTTCTGCTC	PCR Primer	Xq28 "X2"
GGGCTAGGTACAGGGTTCAGC	PCR Primer	Xq28 "X2"
Alexa647 -CAGGTCGAGCCCTGTAGTACGa	PCR Primer	Xq28 "X3"
ATTO488 -TTGATCTACATAttCAGGTCGAGCCCTGTAGTACG	PCR Primer	Xq28 "X3"
CTAGGAGACAGCCTCGGACAC	PCR Primer	Xq28 "X3"
TATGTAGATC- CY3B	DNA-PAINT	Xq28 "X3"
TTATACATCTAG	DNA-PAINT	Xist RNA
CTAGATGTAT- CY3B	DNA-PAINT	Xist RNA
CCATGGCGAGAAGGTCTGCG	PCR Primer	19p13.2 1035 kb & 20 kb
TAATACGACTCACTATAGGGGCGTGTGCGAGTGGTTGGAC	PCR Primer + T7	19p13.2 1035 kb & 20 kb
GGTGTGGGCTAGCGCCAATCGGTCTTACAGCGGCGCAATGTTTAGCGCAGGAGGTCCACGACGTGCAAGGGTGT	Secondary Oligo	19p13.2 1035 kb
Alexa647 -ACACCCCTTGCACGTCGTGGACCTCCTGCGCTATTTTTTTT- Alexa647	Tertiary Oligo	19p13.2 1035 kb
CTCCGGCGGACTCATCCAGGGTCTTACAGCGGCGCAATGTTTACCAGCGTCGCATAGAACGGAAGAGCGTGTG	Secondary Oligo	19p13.2 20 kb
Alexa647 -CACACGCTCTTCCGTTCTATGCGACGTCGGTGTTTTTTTT- Alexa647	Tertiary Oligo	19p13.2 20 kb
Alexa405 -CATTGCGCCGCTGTAAGACC	Tertiary Oligo	19p13.2 1035 kb & 20 kb